AMENDMENTS TO THE CLAIMS

1-18. (Canceled)

19. (Currently amended) An amplitude modulation receiver for receiving an input

signal and generating a corresponding demodulated signal, comprising: a transistor biased to be

simultaneously operable as a reflection amplifier for reflectively amplifying the input signal, and

as a detector for detecting an amplified input signal to generate the demodulated signal, wherein

the receiver has a gain which is responsive to a magnitude of the input signal, thereby providing

the receiver with an automatic gain control characteristic.

20. (Previously presented) The receiver according to claim 19, wherein the transistor

is operative in a non-linear region of its current/voltage transfer characteristic.

21. (Previously presented) The receiver according to claim 20, wherein the transistor

is operable to conduct a current therethrough in a range of 5 µA to 110 µA to function in said

non-linear region.

22. (Previously presented) The receiver according to claim 19, wherein the transistor

incorporates an electrode for receiving the input signal, the electrode being connected through a

signal path to a signal earth such that the path is operable for conveying reflected signals

between the transistor and the signal earth, and for diverting the input signal to the electrode.

23. (Previously presented) The receiver according to claim 19, and an antenna

assembly for receiving input radiation and generating therefrom the input signal for the

transistor.

24. (Canceled)

25. (Previously presented) A frequency modulation (FM) receiver, comprising: an

amplitude modulation (AM) receiver for receiving an input signal and generating a

corresponding demodulated signal, including a transistor biased to be simultaneously operable as

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Suite 2800 Seattle, Washington 98101 206.682.8100 a reflection amplifier for reflectively amplifying the input signal, and as a detector for detecting an amplified input signal to generate the demodulated signal; and converting means for converting an input frequency modulated signal applied thereto into a corresponding amplitude modulated signal, the AM receiver being operable for demodulating the amplitude modulated signal to provide a demodulated output signal.

26. (Previously presented) The receiver according to claim 25, wherein the converting means comprises a bandpass filter operable off resonance for converting the frequency modulated signal into the corresponding amplitude modulated signal.

27. (Previously presented) A global positioning satellite (GPS) receiver, comprising: a modulation receiver for receiving an input signal and generating a corresponding demodulated signal, including a transistor biased to be simultaneously operable as a reflection amplifier for reflectively amplifying the input signal, and as a detector for detecting an amplified input signal to generate the demodulated signal; receiving means for receiving input radiation and for generating a corresponding received signal; and processing means for filtering, amplifying and gating the received signal to provide input signals for the modulation receiver to demodulate to provide demodulated signals from which a positional reference for the GPS receiver is derivable.

28. (Previously presented) The receiver according to claim 27, wherein the receiving means is a circularly polarized antenna.

29. (Previously presented) The receiver according to claim 27, wherein the processing means incorporates reflection amplifiers for amplifying and gating the received signal for generating processed signals.

30. (Previously presented) The receiver according to claim 27, wherein the processing means incorporates magnetostatic filtering and frequency selective limiting means for processing the received signal.

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for receiving an input signal and generating a corresponding demodulated signal, including a transistor biased to be simultaneously operable as a reflection amplifier for reflectively

(Previously presented) An identification tag, comprising: a modulation receiver

amplifying the input signal, and as a detector for detecting an amplified input signal to generate

the demodulated signal, the modulation receiver being operable to be responsive to radio

radiation received thereat.

31.

32. (Previously presented) A wireless local area network for interconnecting

computers, the network comprising: a modulation receiver for receiving an input signal and

generating a corresponding demodulated signal, including a transistor biased to be

simultaneously operable as a reflection amplifier for reflectively amplifying the input signal, and

as a detector for detecting an amplified input signal to generate the demodulated signal, the

modulation receiver being operative for performing demodulation of signals within the network.

33. (Previously presented) A mobile telephone, comprising: a modulation receiver

for receiving an input signal and generating a corresponding demodulated signal, including a

transistor biased to be simultaneously operable as a reflection amplifier for reflectively

amplifying the input signal, and as a detector for detecting an amplified input signal to generate

the demodulated signal, the modulation receiver being operable to provide demodulation of

signals propagating therein.

34. (Previously presented) An electronic security key, comprising: a modulation

receiver for receiving an input signal and generating a corresponding demodulated signal,

including a transistor biased to be simultaneously operable as a reflection amplifier for

reflectively amplifying the input signal, and as a detector for detecting an amplified input signal

to generate the demodulated signal, the modulation receiver being operative for performing

demodulation of signals propagating therein.

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- 35. (Previously presented) The key according to claim 34, wherein the receiver is housed within a key fob.
- 36. (Previously presented) A method of amplitude demodulating an input signal, the method comprising the simultaneously executable steps of:
- a) biasing a transistor to be simultaneously operable as a reflection amplifier and as a detector;
- b) receiving the input signal and reflectively amplifying the input signal in the transistor operating as the reflection amplifier to generate an amplified input signal; and
- c) passing the amplified input signal through the transistor operating as the detector in a non-linear mode to demodulate the amplified input signal and thereby generate a corresponding demodulated signal.
- 37. (New) The receiver according to claim 19, wherein the receiver has a gain which is responsive to a magnitude of the input signal, thereby providing the receiver with an automatic gain control characteristic.